

From: [Moreen, Ed](#)
To: [Brian Harden](#); [Mark Hartmann](#)
Subject: FW: W912DW-16-C0012, 01 35 45.00 10-7 DMR September 2017 (UNCLASSIFIED)
Date: Wednesday, June 20, 2018 10:52:00 AM
Attachments: [Scan_Doc0001.pdf](#)

Brian/Mark:

I don't know if you guys were around the mine last September but if you were I'd be interested to know if you know why the Pb concentrations jumped so dramatically on September 7. It's not easily explained that Pb spiked to an unusually high concentration but other metals did not.

If you have any idea what may have caused that it would be helpful for us to know and document in the annual report we file in the TRI system.

Thanks much,

Ed

-----Original Message-----

From: Archer, Spencer [<mailto:spencer.archer@woodplc.com>]
Sent: Wednesday, June 20, 2018 9:25 AM
To: Zion, Rodney E CIV USARMY CENWS (US) <Rodney.E.Zion@usace.army.mil>; Reitter, Eric T <eric.reitter@woodplc.com>
Cc: Moreen, Ed <Moreen.Ed@epa.gov>; Williams, Jacob A CIV USARMY CENWS (US) <Jacob.A.Williams@usace.army.mil>; Kunas, Karl J CIV USARMY CENWS (US) <Karl.J.Kunas@usace.army.mil>
Subject: RE: W912DW-16-C0012, 01 35 45.00 10-7 DMR September 2017 (UNCLASSIFIED)

Rod,

Here's additional info.

New mine pool pump was installed and placed into service approximately 17 hours prior to our sampling event on 7 September 2017. At the time of the pump activation the CTP received approximately 2020 gpm of influent. At the time we sampled, the flow had decreased to approximately 1900 gpm. Prior to the new mine pool pump activation the mine discharge flow remained on low flow (gravity flow) for fifteen days.

The lead result is correct and attributed to the suspended solids pumped during the activation of the new mine pool pump that was installed and placed into service approximately 17 hours prior to our sampling event on September 7.

The daily QC reports, sample data and daily log from this time period is attached.

Please let us know if you have any additional questions.

Thanks,

Spencer Thomas Archer, P.E., BCEE
Mobile: +(b) (6)
www.woodplc.com

-----Original Message-----

From: Archer, Spencer
Sent: Wednesday, June 20, 2018 8:53 AM
To: 'Zion, Rodney E CIV USARMY CENWS (US)' <Rodney.E.Zion@usace.army.mil>; Reitter, Eric T <eric.reitter@woodplc.com>
Cc: Moreen. Ed (moreen.ed@epa.gov) <moreen.ed@epa.gov>; Williams, Jacob A CIV USARMY CENWS (US) <Jacob.A.Williams@usace.army.mil>; Kunas, Karl J CIV USARMY CENWS (US) <Karl.J.Kunas@usace.army.mil>
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Rod,

We are digging into this, but wanted to share info ASAP.

As reported during our call on 11 September 2017:

c.New mine pumps seemed to add about 1,400 gpm to gravity flow (750 gpm) starting around September 6.

As reported during our call on 25 September 2017:

b.TSS from the Kellogg Tunnel increased approximately four times normal levels following recent increase in flows from the mine. Currently only one data point exists.

During the 25 September call, we notified the Government of the 431 mg/L TSS results from the sample collected from the KT on 7 September 2017 as we were concerned with the elevated TSS results. The elevated TSS supports the elevated lead reported which occurred around the same period that the mine installed the new pump and started pumping.

Thanks,

Spencer Thomas Archer, P.E., BCCE
Mobile: +(b) (6)
www.woodplc.com

-----Original Message-----

From: Zion, Rodney E CIV USARMY CENWS (US) [<mailto:Rodney.E.Zion@usace.army.mil>]
Sent: Tuesday, June 19, 2018 11:17 AM
To: Archer, Spencer <spencer.archer@woodplc.com>; Reitter, Eric T <eric.reitter@woodplc.com>
Cc: Moreen. Ed (moreen.ed@epa.gov) <moreen.ed@epa.gov>; Williams, Jacob A CIV USARMY CENWS (US) <Jacob.A.Williams@usace.army.mil>; Kunas, Karl J CIV USARMY CENWS (US) <Karl.J.Kunas@usace.army.mil>
Subject: RE: W912DW-16-C0012, 01 35 45.00 10-7 DMR September 2017 (UNCLASSIFIED)

CLASSIFICATION: UNCLASSIFIED

Spencer, I looked over the DMR, and I concur that the lead results for 7 Sept 2017 appear to be either a typo or anomalous. I see a note in the DMR that the influent flow rate on that date decreased from 2020 gpm to 1895 gpm, but that wouldn't explain such a high influent lead concentration on that one single day.

Can you give us some feedback?

Thanks,
Rod Zion
U.S. Army Corps of Engineers
Eastern Environmental Project Office
Coeur d'Alene, ID
Office: (208)667-7025 ext 1112

Cell: (b) (6)

-----Original Message-----

From: Kunas, Karl J CIV USARMY CENWS (US)
Sent: Monday, June 18, 2018 8:45 AM
To: Zion, Rodney E CIV USARMY CENWS (US) <Rodney.E.Zion@usace.army.mil>; Archer, Spencer <spencer.archer@woodplc.com>
Cc: Moreen. Ed (moreen.ed@epa.gov) <moreen.ed@epa.gov>; Williams, Jacob A CIV USARMY CENWS (US) <Jacob.A.Williams@usace.army.mil>
Subject: RE: W912DW-16-C0012, 01 35 45.00 10-7 DMR September 2017

Rod, Spencer;

In doing the 2017 TRI, it was noticed that the sample concentration for Pb taken on 7 Sep 2017 seems anomalously high.

DATA VALIDATION REPORT seem to report all data is valid, and it doesn't appear any qualifiers were put on that particular sample/analyte pairing.

Any thoughts?

Karl J. Kunas, P.E., PMP
Program & Project Manager
Army Corps of Engineers - Seattle District
(b) (6)

-----Original Message-----

From: Zion, Rodney E CIV USARMY CENWS (US)
Sent: Tuesday, October 24, 2017 8:16 AM
To: Moreen. Ed (moreen.ed@epa.gov) <moreen.ed@epa.gov>; Kunas, Karl J CIV USARMY CENWS (US) <Karl.J.Kunas@usace.army.mil>
Subject: FW: W912DW-16-C0012, 01 35 45.00 10-7 DMR September 2017

Ed see attached DMR for September 2017.

Thanks,
Rod Zion
U.S. Army Corps of Engineers
Eastern Environmental Project Office
Coeur d'Alene, ID
Office: (208)667-7025 ext 1112
Cell: (b) (6)

-----Original Message-----

From: CENWS-NWAO-Submittals
Sent: Friday, October 20, 2017 2:01 PM
To: Zion, Rodney E CIV USARMY CENWS (US) <Rodney.E.Zion@usace.army.mil>; Zoeller, Gregory T (Greg) CIV USARMY CENWS (US) <Gregory.T.Zoeller@usace.army.mil>
Subject: FW: W912DW-16-C0012, 01 35 45.00 10-7 DMR September 2017

FIO e-submittal for review in RMS 3.0; suspense date 20 October.

Cheryl Sauro
Engineering Technician

US Army Corps of Engineers, Seattle District Construction Division (CENWS-CD) Office 253-312-2891 Fax 253-966-4560

-----Original Message-----

From: LaHote, Patricia A [<mailto:patricia.lahote@woodplc.com>]

Sent: Friday, October 20, 2017 1:54 PM

To: CENWS-NWAO-Submittals <CENWS-NWAO-Submittal@usace.army.mil>

Cc: Zion, Rodney E CIV USARMY CENWS (US) <Rodney.E.Zion@usace.army.mil>; Meyers, Albert <albert.meyers@woodplc.com>; Elmer, Patrick <patrick.elmer@woodplc.com>; Projectmail - Bunker Hill CTP_USACE <BunkerHill.CTPUSACE@amecfw.com>; Zoeller, Gregory T (Greg) CIV USARMY CENWS (US) <Gregory.T.Zoeller@usace.army.mil>; Reitter, Eric T <eric.reitter@woodplc.com>; Lee, Khalfani <khalfani.lee@woodplc.com>; Hope, Patrick <patrick.hope@woodplc.com>; Archer, Spencer <spencer.archer@woodplc.com>

Subject: [EXTERNAL] RE: W912DW-16-C0012, 01 35 45.00 10-7 DMR September 2017

Mr. Zion,

Please find the attached submittal for 01 35 45.00 10-7 DMR September 2017

This has been submitted thru RMS 3.0 as well. Please let us know if you have any questions.

Thank you.

Patricia LaHote

Technical Professional 3-Field

Direct: (865) 218-1077

Mobile: (b) (6)

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